

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to:

Mail Stop IDS  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

August 22, 2003

Tommy Styer



**PATENT**

**Attorney Docket No.: 030353**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicant:** Ron Everett :  
:  
**Serial No.:** 10/620,988 :  
:  
**Filing Date:** July 16 2003 :  
:  
**Entitled:** DATA BASE AND KNOWLEDGE OPERATING SYSTEM

**INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to the provisions of 37 C.F.R. Sections 1.56, 1.97 and 1.98, the Applicant lists the documents listed on the attached PTO Form 1449 for consideration during prosecution of the above-captioned patent application, which was filed on July 16, 2003. The Applicant hereby requests that Examiner to review and make an independent evaluation of the art.

This statement is made solely for the purpose of compliance with the above-identified rules and is not intended to be a substitute for an independent search by the Examiner, and no representation of any such nature is made or intended by this statement.

Also enclosed is a return postcard. Please date stamp and mail the postcard to acknowledge receipt of the above-mentioned correspondence.

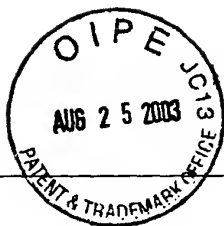
Respectfully submitted,

A handwritten signature in black ink, appearing to read "D. Carleton", with a long horizontal flourish extending to the right.

Dennis M. Carleton  
Reg. No. 40,938  
BUCHANAN INGERSOLL P.C.  
One Oxford Centre, 20th Floor  
301 Grant Street  
Pittsburgh, PA 15219  
(412) 562-1895  
email: carletondm@bipc.com

Dated: August 22, 2003

Attorney for Applicants

SHEET 1 OF 6FORM PTO-1449  
(Rev. 7-80)U.S. Department of Commerce  
Patent and Trademark OfficeATTY. DOCKET NO.  
030353SERIAL NO.  
10/620,988

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Ron EverettFILING DATE  
07-16-03

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
	AA	4,448,726	09-05-85	Cramsie, et al.			
	AB	4,591,983	05-2-7-86	Bennett, et al.			
	AC	4,752,889	06-21-88	Rappaport, et al.			
	AD	4,816,994	03-28-89	Freiling, et al.			
	AE	4,853,873	08-01-89	Tsuji, et al.			
	AF	4,868,763	09-19-89	Masui, et al.			
	AG	4,884,218	11-28-89	Agnew, et al.			
	AH	4,893,232	01-09-87	Shimaoka, et al.			
	AI	5,333,237	07-26-94	Stefanopoulos, et al.			
	AJ	5,333,310	07-26-94	Sakai			
	AK	5,448,722	09-05-95	Lynne, et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

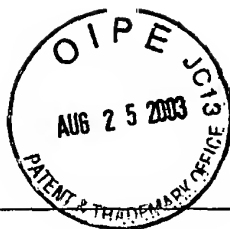
## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR	<input checked="" type="checkbox"/>	Chen, "The Entity-Relationship Model -- Toward a Unified View of Data", ACM Transactions on Database Systems, Vol. 1, No. 1, March 1976, pgs. 1-36.
	AS	<input checked="" type="checkbox"/>	E.F. Codd, "Extending the Database Relational Model to Capture More Meaning", ACM Transactions on Database Systems, Vol. 4, No. 4, December 1979, pgs. 397-434.
	AT	<input checked="" type="checkbox"/>	Lazy Software Ltd., "The Associative Model of Data White Paper", Copyright 2000 Lazy Software Ltd, pgs. 1-15.

EXAMINER

DATE CONSIDERED

\* EXAMINER Initial if reference considered, whether or not citation is in conformance with PEP 609. Draw line through question if not in conformance and not considered. Include copy of this form with next communication to applicant.



SHEET 2 OF 6

FORM PTO-1449 (Rev. 7-80)		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET NO. 030353	SERIAL NO. 10/620,988		
<b>LIST OF PRIOR ART CITED BY APPLICANT</b>  <i>(Use several sheets if necessary)</i>				APPLICANT Ron Everett			
				FILING DATE 07-16-03	GROUP		
<b>U.S. PATENT DOCUMENTS</b>							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
	AA	5,448,726	09-05-95	Cramsie, et al.			
	AB	5,490,258	06-02-96	Fenner			
	AC	5,555,409	09-10-96	Leenstra, Sr., et al.			
	AD	5,561,793	10-01-96	Bennett, et al.			
	AE	5,592,666	01-07-97	Perez			
	AF	5,619,621	04-08-97	Puckett			
	AG	5,649,190	07-15-97	Sharif-Askary, et al.			
	AH	5,671,406	09-23-97	Lubbers, et al.			
	AI	5,701,453	12-23-97	Maloney, et al.			
	AJ	5,701,467	12-23-97	Freeston			
	AK	5,713,014	01-27-98	Durflinger, et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AL						
	AM						
	AN						
	AO						
	AP						
<b>OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
	AR	/	Richard Hull, et al., "Semantic Database Modeling: Survey, Applications, and Research Issues", ACM Computing Survey, Applications and Research Issues", Vol. 19, No. 3, September 1987, pgs. 201-260.				
	AS	/	Lazy Software Ltd., "Lazy View Database Aggregation Capability White Paper", Lazy Software Ltd., Copyright 2002, pgs. 1-4.				
	AT	/	Codd, "A Relational Model of Data for Large Shared Data Banks, IBM Research Laboratory, Vol. 13, No. 6, June 1970, pgs. 377-387				
EXAMINER						DATE CONSIDERED	
<p>* EXAMINER Initial if reference considered, whether or not citation is in conformance with PEP 609. Draw line through question if not in conformance and not considered. Include copy of this form with next communication to applicant.</p>							

SHEET 3 OF 6

FORM PTO-1449 (Rev. 7-80)		U.S. Department of Commerce Patent and Trademark Office		ATTY. DOCKET NO. 030353		SERIAL NO. 10/620,988		
LIST OF PRIOR ART CITED BY APPLICANT  (Use several sheets if necessary)				APPLICANT Ron Everett				
				FILING DATE 07-16-03		GROUP		
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE	
	AA	5,726,898	03-10-98	Jacobs				
	AB	5,758,333	05-26-98	Bauer, et al.				
	AC	5,799,157	08-25-98	Escallon				
	AD	5,822,780	10-13-98	Schutzman				
	AE	5,878,408	03-02-99	Van Huben, et al.				
	AF	5,905,989	05-18-99	Biggs				
	AG	5,920,867	07-06-99	Van Huben, et al.				
	AH	5,974,141	10-26-99	Saito				
	AI	5,991,758	11-23-99	Ellard				
	AJ	6,002,772	12-14-99	Saito				
	AK	6,029,174	02-22-00	Sprenger, et al.				
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AL							
	AM							
	AN							
	AO							
	AP							
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AR		Senko, "Diam II: The Binary Infological Leval and Its Database Language - FORAL", Mathematical Sciences Dept., pg. 121-140					
	AS		Baldissera, et al., "Interactive Specification and Formal Verification of User's Views in Data Base Design", 1979 IEEE Ch1406-8/79/0000-0262, pgs. 262-272					
	AT							
EXAMINER						DATE CONSIDERED		
* EXAMINER Initial if reference considered, whether or not citation is in conformance with PEP 609. Draw line through question if not in conformance and not considered. Include copy of this form with next communication to applicant.								



SHEET 4 OF 6

FORM PTO-1449  
(Rev. 7-80)U.S. Department of Commerce  
Patent and Trademark OfficeATTY. DOCKET NO.  
030353SERIAL NO.  
10/620,988

## LIST OF PRIOR ART CITED BY APPLICANT

(Use several sheets if necessary)

APPLICANT  
Ron EverettFILING DATE  
07-16-03

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
	AA	6,073,111	06-06-00	Leymann, et al.			
	AB	6,076,077	06-13-00	Saito			
	AC	6,088,693	07-11-00	Van Huben, et al.			
	AD	6,101,500	08-08-00	Lau			
	AE	6,112,209	08-29-00	Gusack			
	AF	6,115,716	09-05-00	Tikkanen, et al.			
	AG	6,134,549	10-17-00	Regnier, et al.			
	AH	6,205,447	03-20-01	Malloy			
	AI	6,233,586	05-15-01	Chang, et al.			
	AJ	6,236,997	05-22-01	Bodamer, et al.			
	AK	6,301,581	10-09-01	Smiley			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AR		
	AS		
	AT		

EXAMINER

DATE CONSIDERED

\* EXAMINER Initial if reference considered, whether or not citation is in conformance with PEP 609. Draw line through question if not in conformance and not considered. Include copy of this form with next communication to applicant.

SHEET 5 OF 6FORM PTO-1449  
(Rev. 7-80)U.S. Department of Commerce  
Patent and Trademark OfficeATTY. DOCKET NO.  
030353SERIAL NO.  
10/620,988

## LIST OF PRIOR ART CITED BY APPLICANT

*(Use several sheets if necessary)*APPLICANT  
Ron EverettFILING DATE  
07-16-03

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
	AA	6,317,749	11-13-01	Chatate			
	AB	6,327,594	12-04-01	Van Huben, et al.			
	AC	6,330,572	12-11-01	Sitka			
	AD	6,356,897	03-12-01	Gusack			
	AE	6,363,388	03-26-02	Sprenger, et al.			
	AF	6,366,922	04-02-02	Althoff			
	AG	6,385,604	05-07-02	Bakalash			
	AH	6,400,996	06-04-02	Hoffberg, et al.			
	AI	6,408,321	06-18-02	Platt			
	AJ	6,424,989	07-23-02	Shaw, et al			
	AK	6,425,119	07-23-02	Jones, et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	AR		
	AS		
	AT		

EXAMINER

DATE CONSIDERED

\* EXAMINER Initial if reference considered, whether or not citation is in conformance with PEP 609. Draw line through question if not in conformance and not considered. Include copy of this form with next communication to applicant.

SHEET 6 OF 6FORM PTO-1449  
(Rev. 7-80)U.S. Department of Commerce  
Patent and Trademark OfficeATTY. DOCKET NO.  
030353SERIAL NO.  
10/620,988

## LIST OF PRIOR ART CITED BY APPLICANT

*(Use several sheets if necessary)*APPLICANT  
Ron EverettFILING DATE  
07-16-03

GROUP

## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	IF APPROPRIATE
	AA	6,434,554	08-13-02	Asami, et al.			
	AB	6,484,179	11-19-02	Roccaforte			
	AC	6,513,038	01-28-03	Hasegawa, et al.			
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART *(Including Author, Title, Date, Pertinent Pages, Etc.)*

	AR		
	AS		
	AT		

EXAMINER

DATE CONSIDERED

\* EXAMINER Initial if reference considered, whether or not citation is in conformance with PEP 609. Draw line through question if not in conformance and not considered. Include copy of this form with next communication to applicant.